

1 / 2

Boiler Type	Typical		
Condition	Normal Operation	Sequence A	
Event Number	Event	Time	Comment
0			External Thermostats supply power
1	Power on	0	there is no permanent live on this boiler
2	Water flows	0	
3	Relay B operates	1	
4	Relay A operates	2	assumes PS ok, Boiler stat calls.
5	Fan Runs	2	
6	Air pressure switch operates	3	
7	Gas valve 1 operates	3	Pilot valve solenoid
8	Intermittent spark	4	
9	Pilot established	5	
10	Relay B de-energises	6	
11	Spark stops	6	
12	Gas valve 2 operates	6	Main gas valve solenoid
13	Main burner cross lights	7	
			Delay until boiler thermostat satisfied
14	Relay A de-energises	8	
15	Gas valve 1 De-energises	8	
16	Gas valve 2 De-energises	8	
17	Flames extinguished	8	
18	Fan stops	8	
19	Air pressure switch releases	9	
20	Relay B operates	10	
			Delay until Boiler thermostat calls
21	Boiler temperature sensor calls	11	
22	Power off	12	External thermostats satisfied.
23	Flames extinguished	13	
24	water flow stops	14	
25	Fan stops	15	
26	Relay A de-energises	16	
27	Air pressure switch releases	17	

Fig. 1

2 / 2

